



MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

Quality Engineered Products Co., Inc.  
4506 Quality Lane  
Tampa, FL 33634

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series 16 ga Outswing Single Glazed Commercial Steel Door-Impact**

**APPROVAL DOCUMENT:** Drawing No. QEP003, titled "Single Glazed Door (Outswing)", sheets 1 through 6 of 6, prepared by manufacturer, dated 10/28/09, signed and sealed by David M. Schonacher, P. E. , bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**Limitations:** 1. Doors are 16 ga (.062" thk) min with min Tensile yield strength of 43.0 ksi  
2. Approved EPS core by Dynaplast (Former Apache ) or Carpenter Co. having current NOA

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 12-1115.07** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No. 14-0910.02  
Expiration Date: December 30, 2019  
Approval Date: December 18, 2014  
Page 1

X  
12/19/14

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (Submitted under file #12-1115.07/ #09-0604.08)
2. Drawing No. QEP003, titled "Single Glazed Door (Outswing)", sheets 1 through 6 of 6, prepared by manufacturer, dated 10/28/09, signed and sealed by David M. Schonacher, Jr., P. E.

Note: This renewal is without any change from previous approval)

**B. TESTS (Submitted under file #12-1115.07/#09-0604.08)**

1. Test reports on 1) Air Infiltration Test, per FBC TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202.
  - 3) Water Resistance Test per FBC, TAS 202-94 (Not Performed).
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC and TAS 202-94

Along with marked-up drawings and installation diagram of Single Outswing /Inswing Flush and Glazed Commercial Steel Doors, prepared by Architect Testing Lab Inc., Test Report No. 84528.01-401-18, dated May 19, 2009 (This test report was last revised on 11/06/09) , signed and sealed by Joseph A. Reed.

**C. CALCULATIONS (Submitted under file #12-1115.07/ #09-0604.08)**

1. Anchor verification calculations, dated 06/15/2009 and last revised on 10/28/2009, prepared, signed and sealed by David M. Schonacher, Jr., P.E.
2. Glazing complies w/ ASTM E-1300-02 & 04.

**D. QUALITY ASSURANCE**

- 1 Miami Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

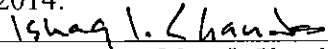
1. Tensile test report prepared by prepared by Architect Testing, Test Report No. 84528.01-401-18, tested per ASTM E8-03, dated 11/09/09 signed and sealed by Joseph A. Reed, P. E. (Submitted under file #12-1115.07/#09-0604.08)
2. Notice of Acceptance No. 11-0926.07 issued to Dyplastic Products, LLC (former Apache Products Co) for "EPS-Expanded Polystyrene Insulation", expiring on 01/11/2017.
3. Notice of Acceptance No. 11-1222.01 issued to Carpenter Company for "EPS-Expanded Polystyrene Insulation", expiring on 04/11/17.
4. Notice of Acceptance No. 12-1231.08 issued to Eastman chemical Company (Former Solutia, Inc.) for "Saflex CP, Saflex and HP Composite Glass interlayer w/ PET core", expiring on 12/11/2018

**F. STATEMENTS (Submitted under file #12-1115.07)**

1. Statement letter of conformance to FBC 2010 and "no financial interest", dated 01/15/13, signed and sealed by David M. Schonacher Jr., P. E.
2. Statesman letter of conformance to FBC 2007 and "No financial interest", dated 06/15/09, signed and sealed by David M. Schonacher Jr. , P. E. (Submitted under file # 09-0604.08)
3. Statement letter of compliance, as a part of the above referenced test reports.

**G. OTHER**

1. This renews NOA #12-1115.07, expiring December 30, 2014.

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 14-0910.02  
Expiration Date: December 30, 2019  
Approval Date: December 18, 2014

# INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS: SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION THROUGH PROPERLY SECURED 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:  
A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55 (FOR SILL INSTALLATION ONLY).  
B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.  
C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

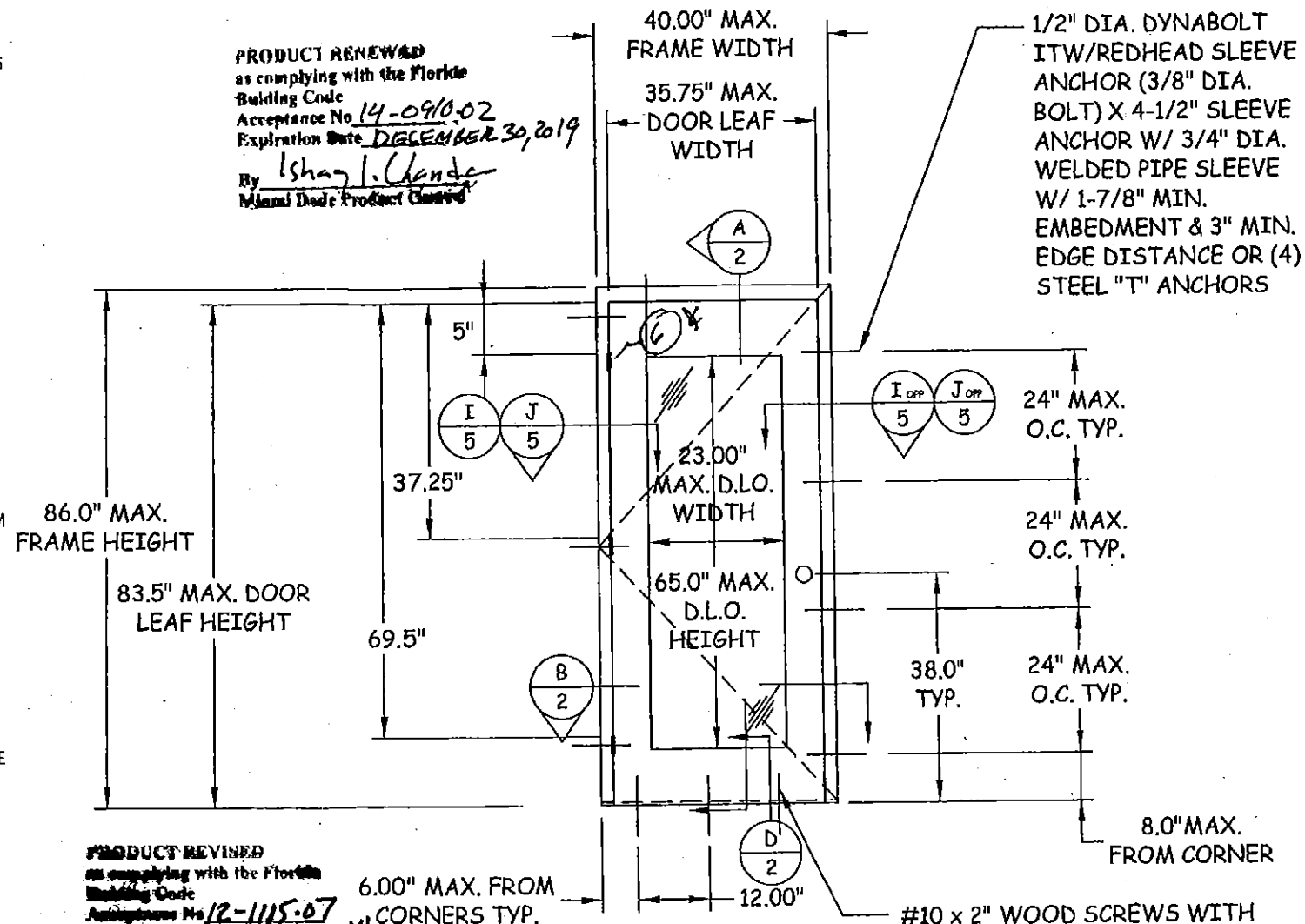
## GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2007 FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:  
• TAS 201-94/TAS 202-94/TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT FOR NON-HVHZ. ONE TIME APPROVAL REQUIRES FOR HVHZ FROM MIAMI-DADE COUNTY.
- THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: STEEL
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAIL.
- DESIGNATIONS "X" FOLLOWING:  
X: OPERABLE PANEL

# QUALITY ENGINEERED PRODUCTS

## SINGLE GLAZED DOOR (OUTSWING)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0910-02  
Expiration Date DECEMBER 30, 2019  
By Ishag I. Chande  
Miami Dade Product Control



PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 12-1115-07  
Expiration Date DEC 30, 2014  
By Ishag I. Chande  
Miami Dade Product Control

## OUTSWING DOOR (INTERIOR VIEW)

#10 x 2" WOOD SCREWS WITH SHIELD SET AT 12" O.C. (EMBED INTO WOOD W/ 1.375" MIN. PENETRATION) OR 3/16" x 2" TAPCON SET AT 12" O.C. (EMBED INTO CONCRETE W/ 1-1/4" MIN. PENETRATION)

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	CYLINDRICAL LOCK SECTIONS
3	-	DOOR DETAILS
4	-	ANCHOR DETAILS
5	-	STEEL REINFORCEMENTS
6	-	COMPONENTS & BILL OF MATERIALS

MIAMI DADE/FLORIDA BUILDING CODE DESIGN PRESSURES			
CYLINDRICAL LOCK REINFORCED	WHERE A WATER INFILTRATION REQUIREMENTS IS NEEDED	WHERE A WATER INFILTRATION REQUIREMENTS IS NOT NEEDED	MISSILE IMPACT RATING
POSITIVE	NOT APPROVED	+80 PSF*	LARGE & SMALL MISSILE IMPACT RATED
NEGATIVE	NOT APPROVED	-80 PSF*	LARGE & SMALL MISSILE IMPACT RATED

\* UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG RATIO (OH) = OH LENGTH/OH HEIGHT IS GREATER THAN 1

Quality  
Engineered  
Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL 33634  
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: GLAZED DOOR  
INSTALLATION &  
GENERAL NOTES  
PREPARED BY:  
QUALITY ENGINEERED PRODUCTS  
4506 QUALITY LN.  
TAMPA, FL 33634  
PH: 813.885.1693 FX: 813.884.2673

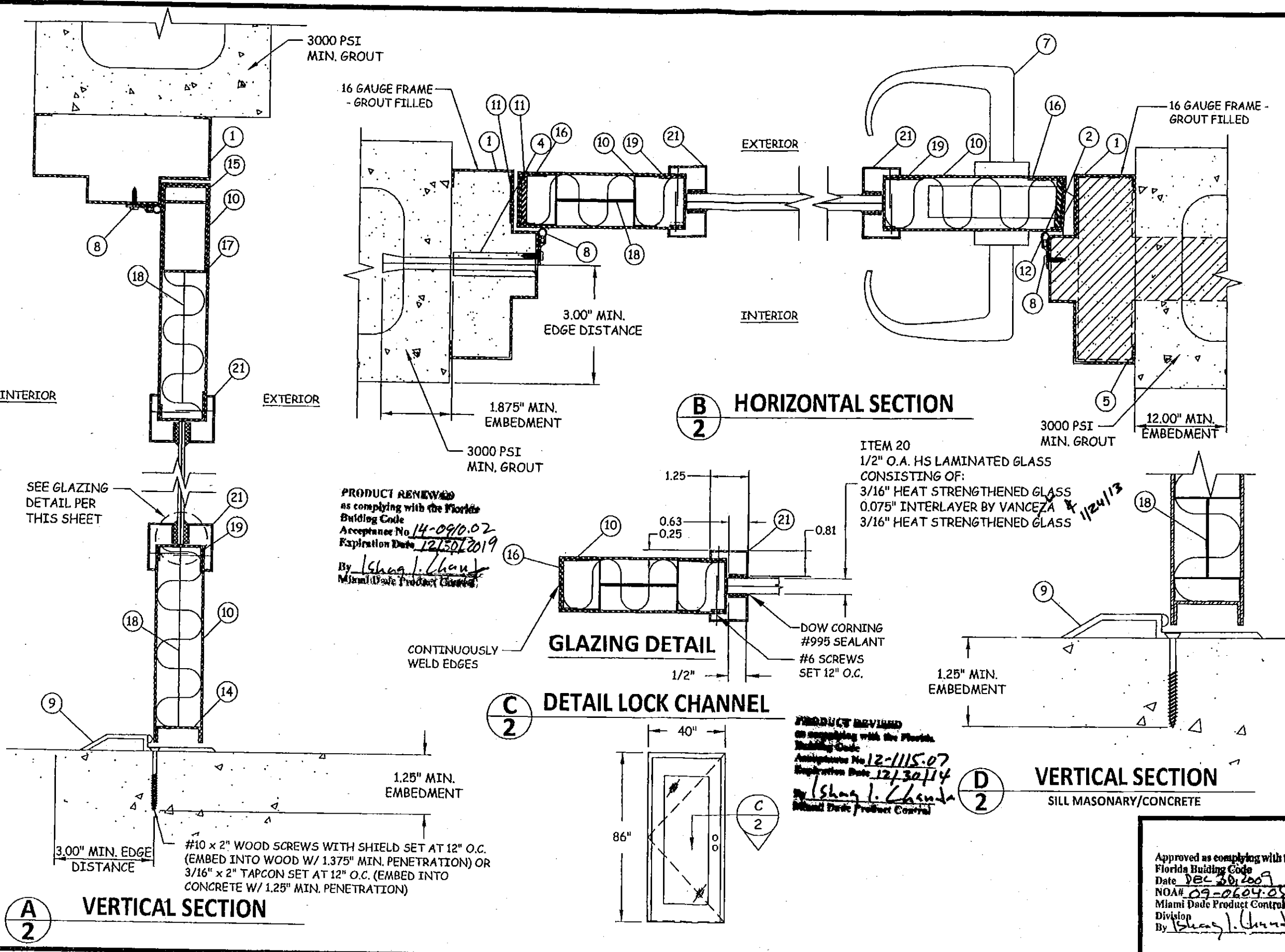
REVISIONS	NO.	DESCRIPTION	BY	DATE

03/28/2009

DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63131

Approved as complying with the  
Florida Building Code  
Date DEC 30, 2009  
NOA# 09-0604-08  
Miami Dade Product Control  
Division  
By Ishag I. Chande

DATE: 04.28.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP003  
SHEET: 1 OF 6

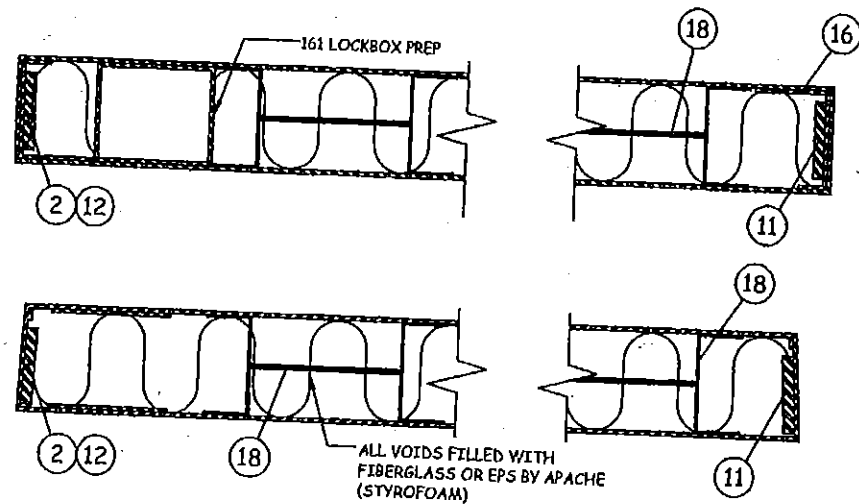


PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0910.02  
Expiration Date 12/30/2019  
By Shang L. Chandra  
Miami Dade Product Control

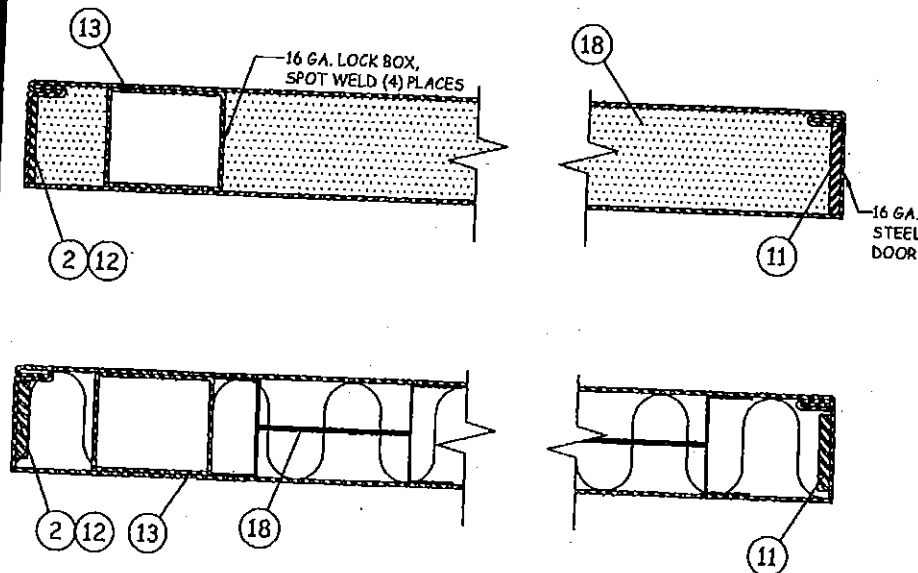
PRODUCT REVIEWED  
as complying with the Florida  
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Acceptance No. 12-1115.07  
Expiration Date 12/30/14  
By Shang L. Chandra  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date DEC 30, 2009  
NOAH 09-0604-08  
Miami Dade Product Control  
Division  
By Shang L. Chandra

Quality Engineered Products Co., Inc.			
4506 QUALITY LN. TAMPA, FL 33634 PH: (813) 885-1693 FX: (813) 884-2673			
TITLE: GLAZED DOOR		PREPARED BY: QUALITY ENGINEERED PRODUCTS 4506 QUALITY LN. TAMPA, FL 33634 PH: 813.8851693 FX: 813.884.2673	
REVISIONS	NO.	DESCRIPTION	DATE
OCT 28 2009		DAVID M. SCHONACHER, P.E. FLORIDA REG. # 63131	
DATE:	04.28.09	DWN BY:	KRM
CHK BY:	DMS	SCALE:	NTS
DWG #: QEP003		SHEET: 2 OF 6	



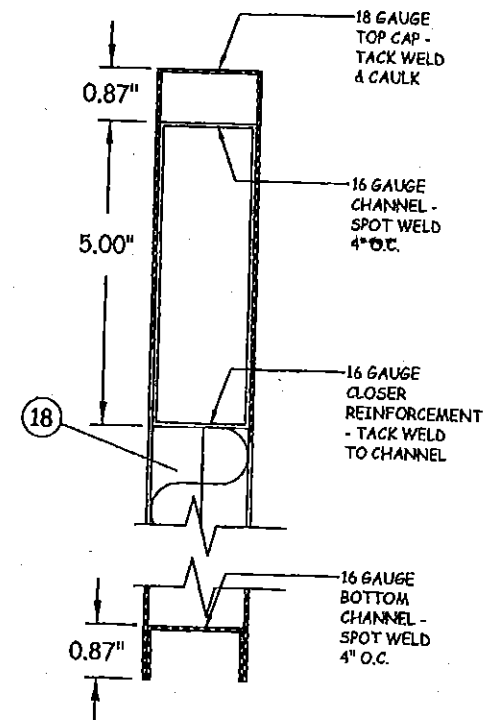
**E SEAMLESS EDGE DOOR**  
3



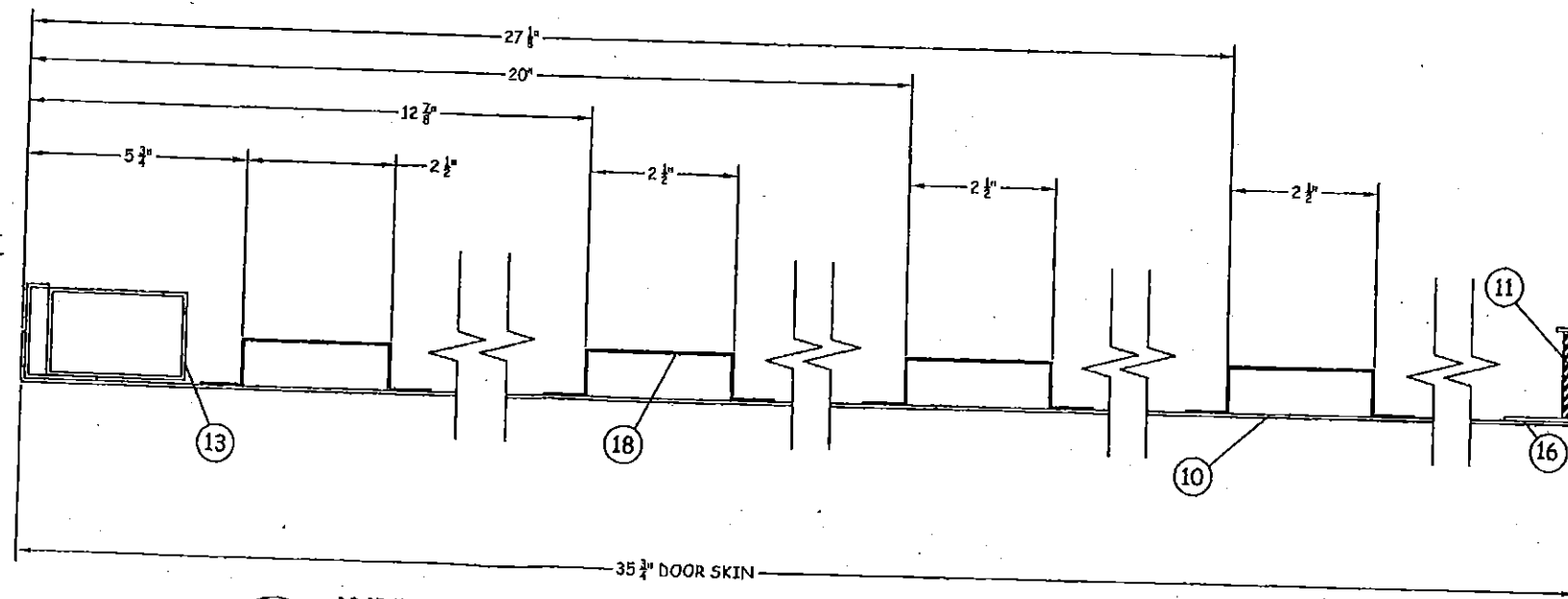
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PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0910-02  
Expiration Date 12/30/2019  
By: *[Signature]*  
Miami Dade Product Control

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as complying with the Florida  
Building Code  
Acceptance No. 12-1115-07  
Expiration Date 12/30/14  
By: *[Signature]*  
Miami Dade Product Control



**H VERTICAL DOOR SECTION**  
3



**G INTERNAL SECTION (PANEL ILLUSTRATION)**  
3  
REINFORCEMENT SPACING

Quality  
Engineered  
Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL 33634  
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: GLAZED DOOR  
DOOR DETAILS  
PREPARED BY:  
QUALITY ENGINEERED PRODUCTS  
4506 QUALITY LN.  
TAMPA, FL 33634  
PH: 813.885.1693 FX: 813.884.2673

REVISIONS

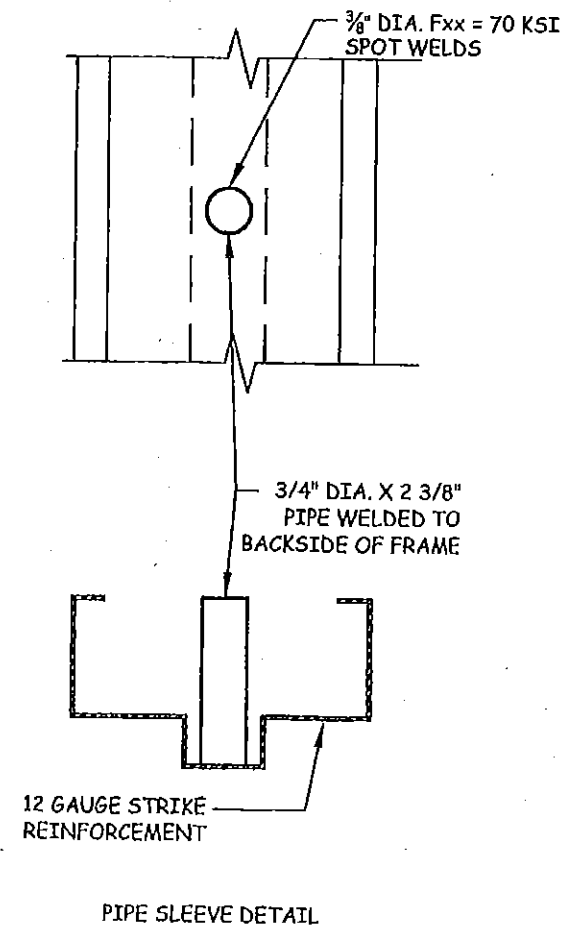
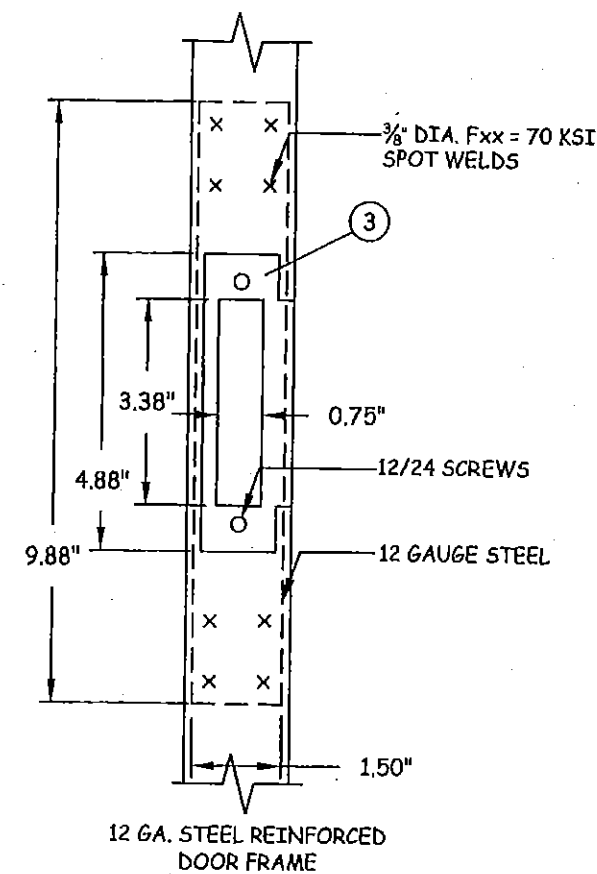
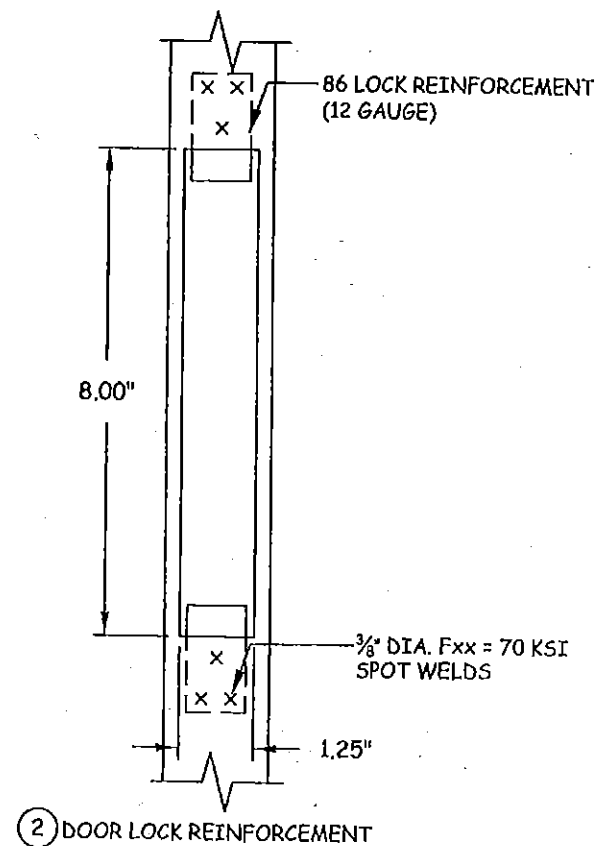
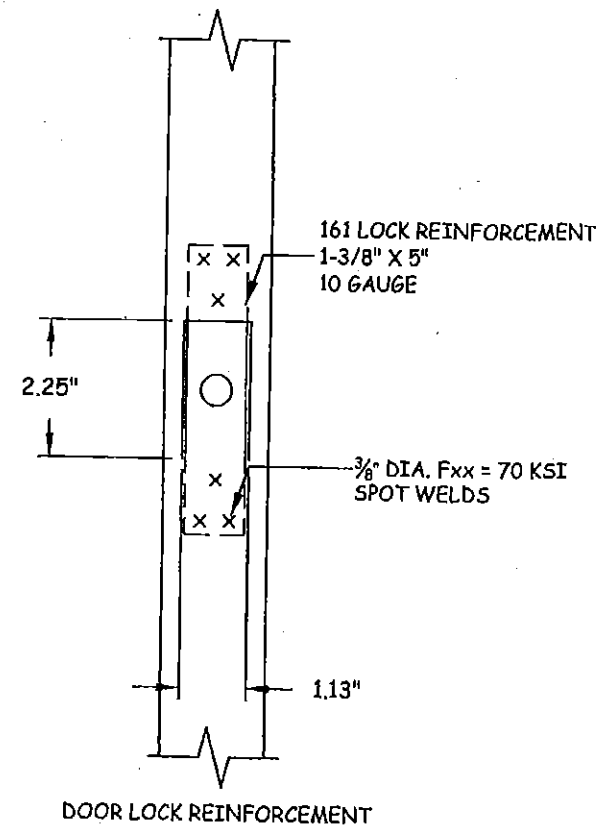
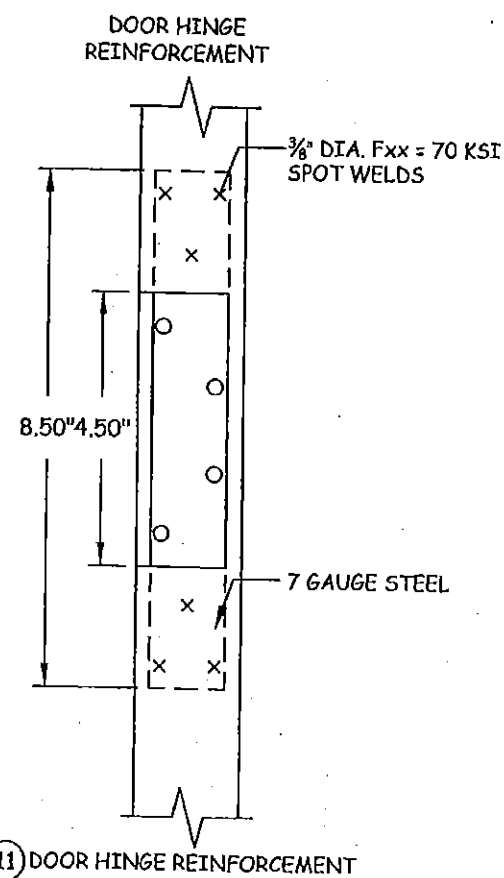
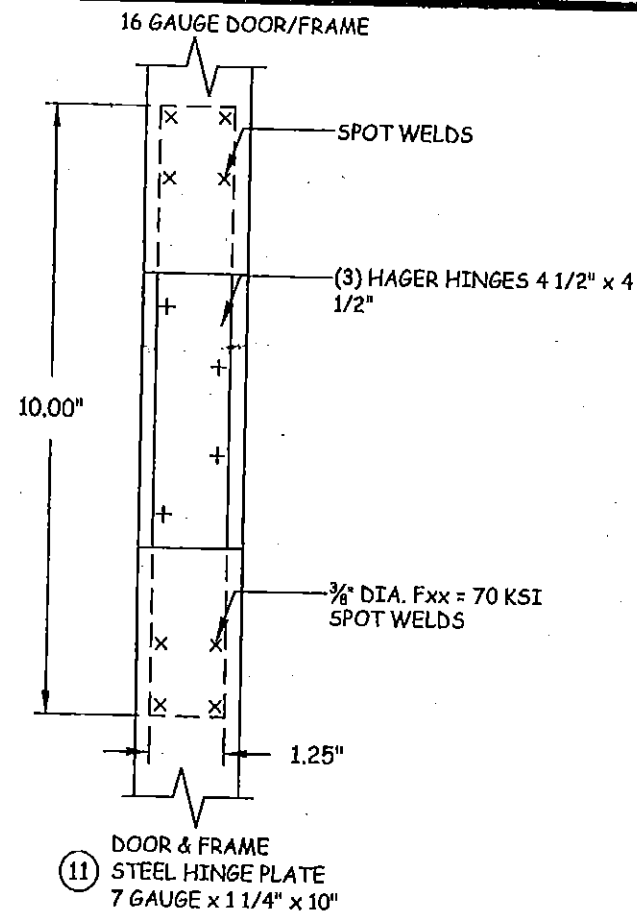
NO.	DESCRIPTION	BY	DATE

OCT 28 2009

DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63131

Approved as complying with the  
Florida Building Code  
Date: DEC 30, 2009  
NOAH: 09-0604-03  
Miami Dade Product Control  
Division  
By: *[Signature]*

DATE: 04.28.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP003  
SHEET: 3 OF 6



PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0910-02  
Expiration Date 12/30/2019  
By: Ishag I. Chaudhry  
Miami Dade Product Control

PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 12-1115-07  
Expiration Date 12/30/14  
By: Ishag I. Chaudhry  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date: Dec 30, 2009  
NOAH: 09-0604-03  
Miami Dade Product Control  
Division  
By: Ishag I. Chaudhry

Quality  
Engineered  
Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL 33634  
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: GLAZED DOOR  
STEEL REINFORCEMENTS  
PREPARED BY:  
QUALITY ENGINEERED PRODUCTS  
4506 QUALITY LN.  
TAMPA, FL 33634  
PH: 813.885.1693 FX: 813.884.2673

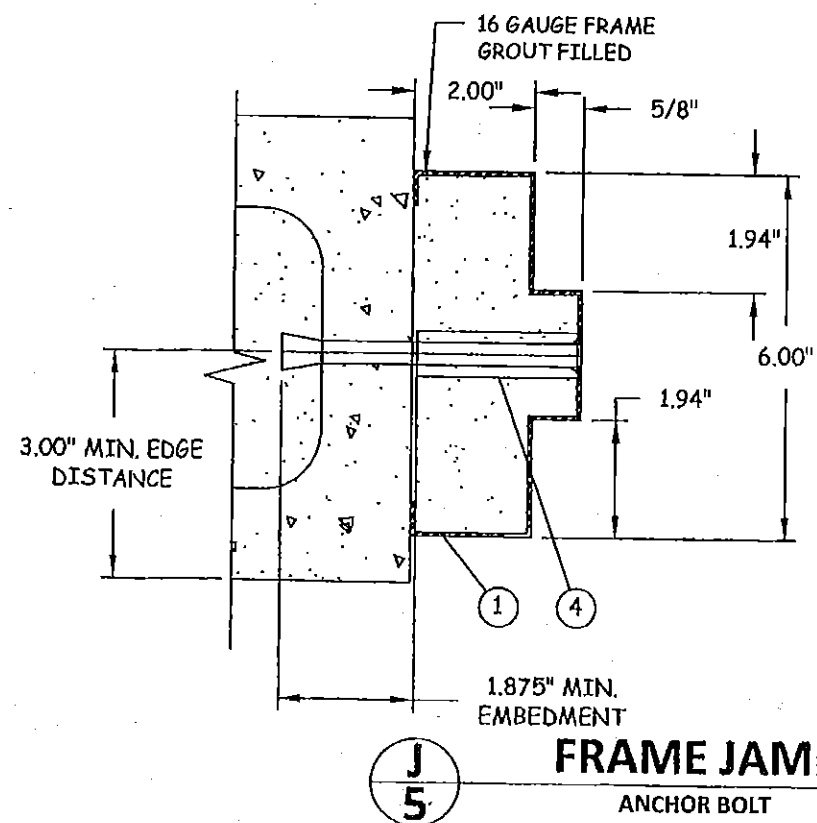
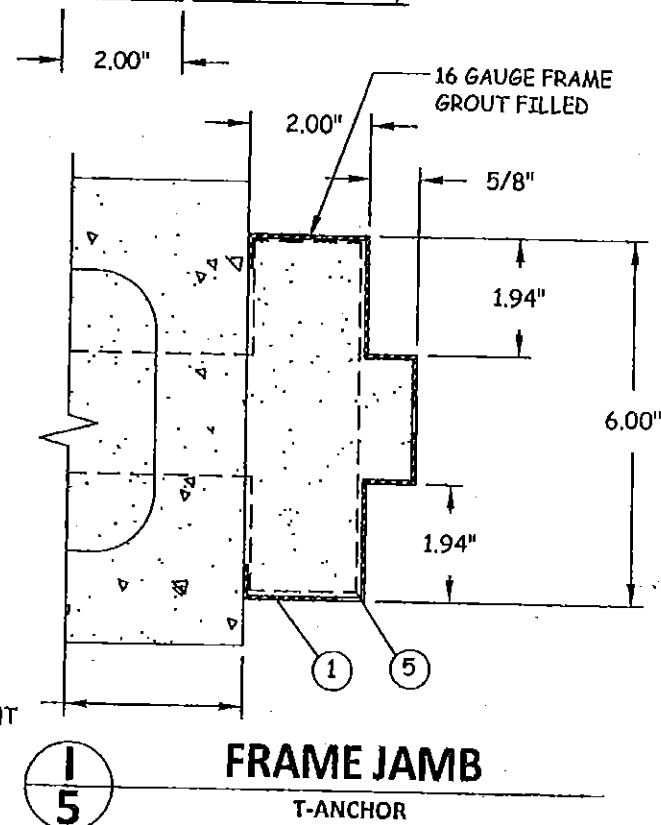
REVISIONS

NO.	DESCRIPTION	BY	DATE

OCT 28 2009

DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63131

DATE: 04.28.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP003  
SHEET: 4 OF 6



**PRODUCT REVIEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-0910-02  
Expiration Date 12/30/14  
By (Signature)  
Miami Dade Product Council

**PRODUCT REVIEWED**  
in compliance with the Florida  
Building Code  
Assignment No 12-1115-07  
Expiration Date 12/30/14  
Isahay L. Chandra  
Florida State Product Council

Approved as complying with the  
Florida Building Code  
Date Dec 30, 2009  
NOA# 09-060409  
Miami Dade Product Control  
Division  
By Greg L. (Signature)

Quality  
Engineered  
Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL 33634  
PH: (813) 885-1693 FX: (813) 884-2673

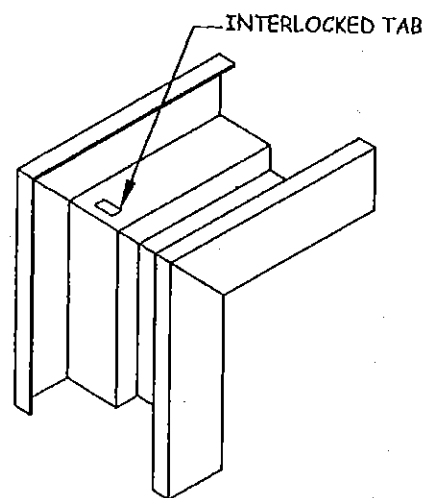
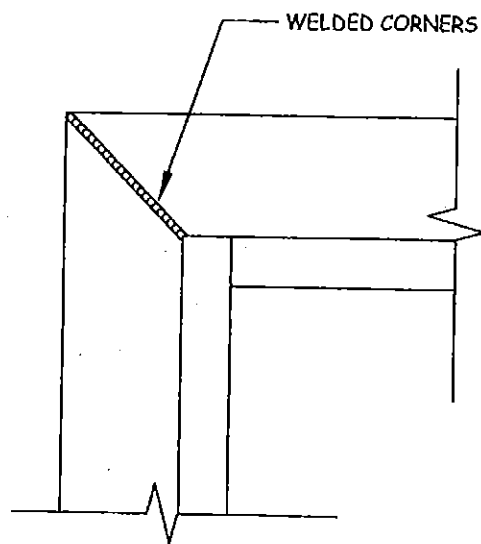
TITLE:	GLAZED DOOR
	ANCHOR DETAILS
PREPARED BY:	QUALITY ENGINEERED PRODUCTS 4506 QUALITY LN. TAMPA, FL 33634
PH:	813.885.1693 FX: 813.884.2673

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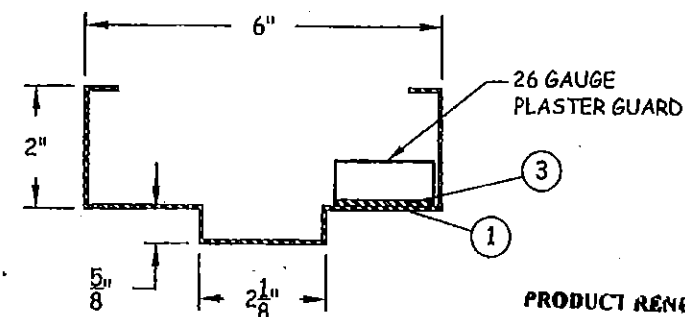
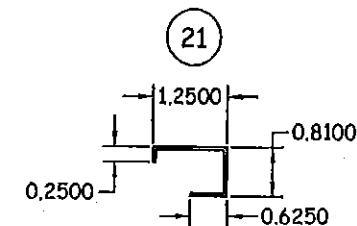
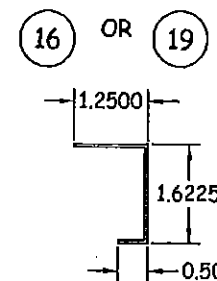
2007 OCT 28

DAVID M. SCHONACHER, P.E.  
FLORIDA REG. # 63131

DATE:	04.28.09	DWN BY:	KRM	CHK BY:	DMS	SCALE:	NTS
DWG #: QEP003							
SHEET: 5 OF 6							

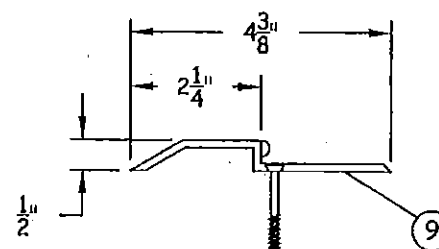


MARK	DESCRIPTION
1	16 GAUGE STEEL FRAME W/ GROUTED JAMBS
2	1 1/8" X 2 1/2" X 12 GA. STEEL LOCK OR STRIKE REINFORCEMENT (MORTISE)
3	1 1/2" X 8" X 12 GA. FRAME STRIKE REINFORCEMENTS
4	1/2" DIA. DYNABOLT ITW/REDHEAD SLEEVE ANCHOR (3/8" DIA. BOLT) X 4 1/2" SLEEVE ANCHOR W/ 3/4" DIA. WELDED PIPE SLEEVE W/ 1 1/8" MIN. EMBEDMENT & 3" MIN. EDGE DISTANCE
5	T-ANCHORS PER DETAIL SHEET 5
6	HAGER HINGES BB1279 4.5 X 4.5 X .134 THICK
7	MARKS 195 SERIES, SCHLAGE D SERIES OR BEST 93K
8	PEMKO 303AS WEATHER STRIP
9	PEMKO 2001av THRESHOLD
10	16 GAUGE STEEL DOOR
11	1 1/4" X 10" X 7 GA. STEEL HINGE REINFORCEMENT
12	1 3/8" X 5" X 10 GA. LATCH REINFORCEMENT (CYLINDRICAL)
13	16 GAUGE LOCK BODY REINFORCEMENT (16 GAUGE PLATE AT MORTISE LOCKS)
14	U-SHAPE END STEEL CHANNEL
15	U-SHAPE CLOSE TOP STEEL CHANNEL
16	1 1/4" X 1 5/8" X 1/2" FULL LENGTH STEEL CHANNEL
17	1 1/2" X 5 1/4" 12 GA. STEEL BOX CHANNEL WELDED 6" O.C. FULL LENGTH
18	20 GAUGE HAT STIFFENERS 74" LONG W/ FIBERGLASS INSULATION OR POLYSTYRENE FOAM BY DYPLAST (FROM APACHE PRODUCTS) PER CURRENT NOA.
19	1 1/4" X 1 5/8" X 1/2" 16 GA. STEEL GLAZING CHANNEL REINFORCEMENT
20	1/2" LAMINATED GLASS 3/16" HEAT STRENGTHENED GLASS 0.075" INTERLAYER BY VANCEZA, LAMINATED BY OLDCASTLE GLASS 3/16" HET STRENGTHENED GLASS)
21	18 GA. STEEL EXTRUDED DOOR GLAZING TRIM W/ #6 SCREWS @ 12" O/C



PLASTER GUARD  
W/ 16 GA. JAMB

PRODUCT RENEWAL  
as complying with the Florida  
Building Code  
Acceptance No. 14-091002  
Expiration Date DEC 30, 2019  
By *Ismael L. Chandra*  
Miami Dade Product Control



#10 x 2" WOOD SCREWS WITH SHIELD SET  
AT 12" O.C. (EMBED INTO WOOD W/ 1.375"  
MIN. PENETRATION) OR 3/16" x 2" TAPCON  
SET AT 12" O.C. (EMBED INTO CONCRETE  
W/ 1-1/4" MIN. PENETRATION)

Approved as complying with the  
Florida Building Code  
Date *Dec 30, 2009*  
NOA# *09-0604.09*  
Miami Dade Product Control  
Division  
By *Ismael L. Chandra*

Quality  
Engineered  
Products Co., Inc.

4506 QUALITY LN.  
TAMPA, FL 33634  
PH: (813) 885-1693 FX: (813) 884-2673

TITLE: GLAZED DOOR  
COMPONENTS &  
BILL OF MATERIALS  
PREPARED BY:  
QUALITY ENGINEERED PRODUCTS  
4506 QUALITY LN.  
TAMPA, FL 33634  
PH: 813.885.1693 FX: 813.884.2673

REVISIONS

NO.	DESCRIPTION	BY	DATE

OCT 28 2009

DAVID M. SCHONAGHER, P.E.  
FLORIDA REG. # 63151

DATE: 04.28.09  
DWN BY: KRM  
CHK BY: DMS  
SCALE: NTS  
DWG #: QEP003  
SHEET: 6 OF 6